

IN THE CLAIMS

Claims 1-32 canceled.

Please add the following new claims:

33. (New) A catheter assembly for treating bifurcated vessels having a side-branch vessel and a main vessel, comprising:

a catheter having a proximal end and a distal end;

an expandable member proximal to the distal end of the catheter;

a tracking guide wire lumen extending within at least a portion of the catheter;

a tracking guide wire having a distal end and a proximal end and sized for slidable movement within the tracking guide wire lumen;

a positioning guide wire lumen associated with the expandable member wherein at least a portion of the positioning guide wire lumen is external to the catheter;

a positioning guide wire having a distal end and a proximal end and sized for slidable movement within the positioning guide wire lumen;

the distal ends of the tracking and position guide wires extend out of the patient's body and can be manipulated so that the distal end of the position guide wire is advanced in the side branch vessel and the distal end of the tracking guide wire is advanced in the main vessel.

34. The catheter assembly of claim 33, wherein the tracking guide wire lumen extends through the catheter from the catheter proximal end to the catheter distal end.

35. The catheter assembly of claim 33, wherein the position guide wire lumen extends through the catheter from the catheter proximal end to a point proximal to the expandable member wherein the position guide wire lumen extends along an outer surface of the catheter and onto an outer surface of the expandable member.

36. The catheter assembly of claim 35, wherein the portion of the position guide wire lumen on the surface of the catheter is a tube attached to the catheter outer surface.

37. The catheter assembly of claim 36, wherein the position guide wire slidably advances through the position guide wire lumen and the tube so that the distal end of the position guide wire advances into the side branch vessel.

38. The catheter assembly of claim 36, wherein the position guide wire lumen has a distal end positioned on the outer surface of the expandable member.

39. The catheter assembly of claim 36, wherein the position guide wire lumen has a distal end extending off of the outer surface of the expandable member.

40. The catheter assembly of claim 39, wherein a stent is mounted on the expandable member and covers at least a portion of the position guide wire lumen.

41. The catheter assembly of claim 40, wherein the stent has an aperture through which the distal end of the position guide wire lumen extends.

42. The catheter assembly of claim 36, wherein the position guide wire lumen is an over-the-wire lumen.

43. The catheter assembly of claim 34, wherein the tracking guide wire lumen and the position guide wire lumen are over-the-wire lumens.

44. The catheter assembly of claim 36, wherein the tracking guide wire lumen is a rapid-exchange lumen and the position guide wire lumen is an over-the-wire lumen.